Claims:

- 1. (currently amended) A composition having laser marking properties comprising a polymeric material, mica or a micaceous material, and a metal sulphide and one or more non-black organic pigments.
- 2. (currently amended) A composition as claimed in according to claim 1, wherein there is a coating comprising a metal oxide on part or whole of the surface of the mica or micaceous material.
- 3. (currently amended) A composition as claimed in according to claim 2, wherein the metal oxide comprises antimony oxide, titanium oxide and/or tin oxide.
- 4. (currently amended) A composition according to any one of claims 1 to 3 claim 1, wherein the metal sulphide is selected from the group consisting of cadmium sulphide, iron sulphide, zinc sulphide and mixed sulphides comprising cadmium, iron or zinc as one of the metals.
- 5. (original) A composition according to claim 4, wherein the metal sulphide is zinc sulphide.
- 6. (currently amended) A composition according to any one of claims 1 to 5 claim 1, wherein the mica or micaceous material is present in an amount ranging from 0.05 to 2 percent by weight, preferably from 0.1 to 0.5 percent by weight, most preferred 0.3±0.1 percent by weight, based on the total weight of the composition.
- 7. (currently amended) A composition according to any one of the previous claims claim 1, wherein the polymeric material is a resin selected from the group consisting of polyolefins, polyurethanes, polycarbonates, polyesters, rubber modified monovinylidene, aromatic resins, polyetherimides, polyamides, polyemides, polyether carbonates, polyphenylene sulphides, polyamideimides, polyesteramides, polyether esters, polyetherimide esters, polyarylates, polymethylpentenes, polysulfones, polyethersulfones, polystyrenes, rubber modified high impact polystyrenes, polyoxymethylene, styrene maleic anhydride copolymers, acrylonitrile styrene acrylate copolymers, acrylonitrile butadiene styrene copolymers (ABS), polyphenylene ethers, polyether ketones, chlorinated polymers, fluorinated polymers, and liquid crystal polymers., preferably from the group-consisting of polyurethanes, high impact polystyrene, polyamides, ABS, polycarbonates and rubber-

modified monovinylidene aromatic resins and blends thereof, most preferred is a thermoplastic polyurethane resin.

- 8. (currently amended) A composition according to any one of claims 1 to 7 claim 1, wherein the amount of metal sulphide in the composition is sufficient to produce a dark marking on an article moulded from the said composition when it has been irradiated with a laser beam at a radiation level of 5-50A at a frequency of 1-100kHz in the range of 500-2100nm.
- 9. (currently amended) A composition according to claim any one of claims 1 to 8, wherein the amount of metal sulphide ranges from 0.05 to 3 percent by weight, preferably from 1.0 to 2.5 percent by weight and the amount of mica or micaceous material is from 0.1 to 0.5 percent by weight, each amount based on the total weight of the composition.
- 10. (currently amended) A composition according to any one of claims 1 to claim 9, which further includes one or more non-black organic or inorganic pigments, preferably in an amount of from 0.01-to 10.0-wherein the amount of metal sulphide is from 1.0 to 2.5 percent by weight, based on the total weight of the composition.
- 11. (currently amended) The use of a-composition according to any-claim 1, to 10 for the manufacture of an article wherein the amount of non-black organic pigment is from 0.01 to 10.0 percent by weight, based on the total weight of the composition.
- 12. **(currently amended)** An article adapted to exhibit dark markings in areas irradiated by a laser beam, which article comprises a composition of claim 1. any one of claims 1 to 10.
- 13. **(original)** An article according to claim 12, which is coloured in any one of the colours pink, red, yellow, orange, lime green, lilac, mid to light blue or turquoise.
- 14. (currently amended) An article according to claim 12-or 13, which is a livestock ear tag.
- 15. (currently amended) An article according to claim 12, as claimed in any one of claims 12 to 14, on which a dark marking is visible.

16. (currently amended) The use of anAn article according to claim 15 any one of claims 12 to 15 in a laser marking process wherein the dark markings are the result of targeting a laser beam on said article. , preferably in a laser marking process achieved using a Nd:YAG laser operating at a wavelength of either 532nm or 1064nm.

17. (cancelled)

- 18. (currently amended) A method of producing an article having laser marked surface portions, which method comprises
- (a) providing a polymeric material;
- (b) compounding said polymeric material with mica or a micaceous material, and a metal sulphide and one or more non-black organic pigments to provide a polymeric composition;
- (c) forming an article using the polymeric composition; and
- (d) irradiating said article with a laser beam to produce laser marked surface portions on the article.
- 19. **(original)** A method according to claim 18, wherein there is a coating comprising a metal oxide on part or whole of the surface of the mica or micaceous material.
- 20. **(original)** A method according to claim 19, wherein the metal oxide comprises antimony oxide, titanium oxide and/or tin oxide.
- 21. (currently amended) A method according to any one of claims 18 to 20 claim 18, wherein the metal sulphide is selected from the group consisting of cadmium sulphide, iron sulphide, zinc sulphide and mixed sulphides comprising cadmium, iron or zinc as one of the metals.
- 22. (original) A method according to claim 21, wherein the metal sulphide is zinc sulphide.
- 23. (currently amended) A method according to any one of claims 18 to 22 claim 18, wherein the mica or micaceous material is present in an amount ranging from 0.05 to 2 percent by weight, preferably from 0.1 to 0.5 percent by weight, most preferred 0.3±0.1 percent by weight, based on the total weight of the article.

- 24. (currently amended) A method according to any one of claims 16 to 20_claim 18, wherein the polymeric material is a resin selected from the group consisting of polyolefins, polyurethanes, polycarbonates, polyesters, rubber modified monovinylidene, aromatic resins, polyetherimides, polyamides, polyemides, polyether carbonates, polyphenylene sulphides, polyamideimides, polyesteramides, polyether esters, polyetherimide esters, polyarylates, polymethylpentenes, polysulfones, polyethersulfones, polystyrenes, rubber modified high impact polystyrenes, polyoxymethylene, styrene maleic anhydride copolymers, acrylonitrile styrene acrylate copolymers, acrylonitrile butadiene styrene copolymers (ABS), polyphenylene ethers, polyether ketones, chlorinated polymers, fluorinated polymers, and liquid crystal polymers_, preferably from the group-consisting of polyurethanes, polycarbonates, polyamides, high impact polystyrene, ABS and rubber-modified monovinylidene aromatic resins and blends thereof, most preferred is a thermoplastic-polyurethane resin.
- 25. (currently amended) A method according to any one of claims 18 to 24 claim 18, wherein the amount of metal sulphide in the composition is sufficient to produce a dark marking on an article moulded from the said composition when it has been irradiated with a laser beam at a radiation level of 5-50A at a frequency of 1-100kHz in the range of 500-2100nm.
- 26. **(currently amended)** A method according to any one of claims 18 to 25 claim 18, wherein the amount of metal sulphide ranges from 0.05 to 3 percent by weight, preferably from 1.0 to 2.5 percent by weight, based on the total weight of the composition.
- 27. (currently amended) A method according to any one of claims 18 to 26 claim 18, wherein the one or more non-black organic or inorganic pigments, preferably are present in an amount of from 0.01 to 10.0 percent by weight, based on the total weight of the composition., are also compounded with the polymeric material to provide the composition.
- 28. (currently amended) A method according to any one of claims 18 to 27 claim 18, wherein the article formed in said step (c) is a livestock ear tag.
- 29. (currently amended) A method according to claim 27-or 28, wherein the article formed in said step (c) is coloured pink, red, yellow, orange, lime green, lilac, mid to light blue or turquoise.

- 30. (new) A method according to claim 23, wherein the mica or micaceous material is present in an amount of from 0.1 to 0.5 percent by weight.
- 31. (new) The method of claim 18, wherein the laser beam is emitted from a Nd:YAG laser of wavelength 532nm or 1064nm.